

Layer (type)	Output Shape	Param #
input_1 (InputLayer)	(None, 1)	0
lambda_1 (Lambda)	(None, 512)	0
dense_1 (Dense)	(None, 128)	65664
dropout_1 (Dropout)	(None, 128)	0
dense_2 (Dense)	(None, 1)	129
Total params: 65,793		
Trainable params: 65,793		
Non-trainable params: 0		

Train on 90000 samples, validate on 15000 samples

Epoch 1/20
90000/90000 [=====] - 164s 2ms/step - loss: 0.3540 - acc: 0.8444 - val_loss: 0.3393 - val_acc: 0.8509
Epoch 2/20
90000/90000 [=====] - 162s 2ms/step - loss: 0.3232 - acc: 0.8599 - val_loss: 0.3189 - val_acc: 0.8623
Epoch 3/20
90000/90000 [=====] - 168s 2ms/step - loss: 0.3131 - acc: 0.8654 - val_loss: 0.3092 - val_acc: 0.8659
Epoch 4/20
90000/90000 [=====] - 159s 2ms/step - loss: 0.3049 - acc: 0.8687 - val_loss: 0.3138 - val_acc: 0.8645
Epoch 5/20
90000/90000 [=====] - 161s 2ms/step - loss: 0.2981 - acc: 0.8713 - val_loss: 0.2999 - val_acc: 0.8735
Epoch 6/20
90000/90000 [=====] - 161s 2ms/step - loss: 0.2927 - acc: 0.8757 - val_loss: 0.2967 - val_acc: 0.8740
Epoch 7/20
90000/90000 [=====] - 158s 2ms/step - loss: 0.2865 - acc: 0.8772 - val_loss: 0.2953 - val_acc: 0.8747
Epoch 8/20
90000/90000 [=====] - 158s 2ms/step - loss: 0.2816 - acc: 0.8809 - val_loss: 0.2913 - val_acc: 0.8763
Epoch 9/20
90000/90000 [=====] - 160s 2ms/step - loss: 0.2770 - acc: 0.8829 - val_loss: 0.2866 - val_acc: 0.8759
Epoch 10/20
90000/90000 [=====] - 161s 2ms/step - loss: 0.2711 - acc: 0.8850 - val_loss: 0.2851 - val_acc: 0.8800
Epoch 11/20
90000/90000 [=====] - 161s 2ms/step - loss: 0.2668 - acc: 0.8884 - val_loss: 0.2788 - val_acc: 0.8815
Epoch 12/20
90000/90000 [=====] - 160s 2ms/step - loss: 0.2627 - acc: 0.8897 - val_loss: 0.2753 - val_acc: 0.8834
Epoch 13/20
90000/90000 [=====] - 160s 2ms/step - loss: 0.2584 - acc: 0.8937 - val_loss: 0.2757 - val_acc: 0.8847
Epoch 14/20
90000/90000 [=====] - 161s 2ms/step - loss: 0.2540 - acc: 0.8942 - val_loss: 0.2728 - val_acc: 0.8876
Epoch 15/20
90000/90000 [=====] - 155s 2ms/step - loss: 0.2502 - acc: 0.8965 - val_loss: 0.2734 - val_acc: 0.8870
Epoch 16/20
90000/90000 [=====] - 161s 2ms/step - loss: 0.2456 - acc: 0.8989 - val_loss: 0.2700 - val_acc: 0.8875
Epoch 17/20
90000/90000 [=====] - 162s 2ms/step - loss: 0.2425 - acc: 0.9002 - val_loss: 0.2662 - val_acc: 0.8902
Epoch 18/20
90000/90000 [=====] - 161s 2ms/step - loss: 0.2386 - acc: 0.9025 - val_loss: 0.2698 - val_acc: 0.8903
Epoch 19/20
90000/90000 [=====] - 160s 2ms/step - loss: 0.2352 - acc: 0.9032 - val_loss: 0.2589 - val_acc: 0.8951
Epoch 20/20
90000/90000 [=====] - 160s 2ms/step - loss: 0.2320 - acc: 0.9048 - val_loss: 0.2600 - val_acc: 0.8959
45000/45000 [=====] - 65s 1ms/step

Test score: 0.25601512627336714

Test accuracy: 0.8948666666666667

